

## ABSTRACT

The present invention relates to a chondroitin synthase gene and methods of making and using same. In more particular, but not by way of limitation, the present invention relates to a chondroitin synthase gene from *Pasteurella multocida* and methods of isolating and using same. Additionally, the present invention relates to the use of unsulfated chondroitin and its preparation, as well as conversion into modified versions such as dermatan sulfate and chondroitin sulfate polymers.

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